SEMKO, B.P., inzh.; YAKIMENKO, A.V.

Relation between coefficients of friction in slipping and coefficients of adhesion of the wheels of a mine loader. Vop.rud. transp. no.4:408-415 160. (MIRA 14:3)

1. Institut gornogo dela AN USSR.
(Ore handling—Equipment and supplies) (Friction)

Research on the acceleration and determination of the pull of the running gear of a rock-loading machine with an electric drive.

Vop.rud. transp. no.4:416-423 '60. (MIRA 14:3)

1. Institut gornogo dela AN USSR.

(Ore handling—Equipment and supplies)

(Electric motors, Induction)

Kinematics and dynamics of the process of the rock-loader bucket dipping into the stock pipe of rock. Sbir. prats' Inst. hir.

(MIRA 13:9)

spravy AN URSR no.6:112-121 '60.
(Mining machinery)

semko, B. P., Cand Tech Sci -- "Study of the kinematics and dynamics of the process of thrusting the loading-machine" shower into the stock pile." Stalino, 1961. (Min of Higher and Sec Spec Ed RSFSR. Novocherkassk Order of Labor Red Banner Polytech Inst im Sergo Ordzhonikidze) (KL, 8-61, 249)

- 306 -

CIA-RDP86-00513R001547920006-7 "APPROVED FOR RELEASE: 08/09/2001

SEMKO, B.P., inzh.

Empirical formula for calculating the penetration depth of a bucket loader into a rock dump. Sbor. trud. Inst. gor. dela AN URSR no.12:163-171 '61. (MIRA (MIRA 15:11)

(Mining machinery)

ACC NR: AP7001488

UR/0436/66/000/006/0017/0020 SOURCE CODE:

AUTHOR: Solomko, V. P.; Semko, L. S. (Candidate of chemical sciences)

.Kiev State University (Kiyevskiy gosuniversitet) ORG:

The effect of fiberglass on mechanical characteristics of polystyrene and TITLE: polymethylmethacrylate in the vitreous state

Khimicheskaya promyshlennost' Ukrainy, no. 6, 1966, 17-20

TOPIC TAGS: reinforced plastic, polymethylmethacrylate, polystyrene, glass fiber, plastic film, plastic strength

ABSTRACT: Variations of tensile strength have been studied within the temperature range of the existence of the vitreous state in fiberglass-reinforced polystyene (PS) and polymethylmethacrylate (PMMA) films with variable fiberglass content. The procedures of preparation and testing of the films were described by the authors in an earlier study [Khimicheskaya promyshlennost' Ukrainy, no. 5, 1966]. Inversion of the strengthening effect of fiberglass was observed within the existence range of the glassy state only above the brittle point of the plastic material. This inversion was reflected in the existence of the maximum effect at a certain fiberglass content and at a temperature above the brittle point and was explained by the existence of a critical elasticity of macromolecules. The strengthening effect of the fiberglass was shown to occur even in the brittle state above a certain fiberglass content.

678.7.004.12:677.521 UDC:

SEMKO, M. F. (Co-author)

See: ROZENFEL'D, L. Ya.

Semko, M. F. and Rozenfel'd, L. Ya. - "Working EZh-l steel by the speed milling method," Nauch. zapiski Khar'k. mekhan.mashinostroit. in-ta, Vol. IX, Issue 1, 1948, p. 89-98

SO: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

SEMKO, M.F., professor; AMDREYEV, G.Ya., kandidat tekhnicheskikh nauk, nauchnyy redektor; DONSKOY, Ya.Ye., redsktor; SHEVCHENKO, M.G., tekhnicheskiy redaktor

[Metal cutting with mineral-ceramic cutting tools] Rezanie metallov mineralokeramicheskim instrumentom. [Khar'kov] Khar'kovskoe obl. izd-vo, 1956. 90 p. (MIRA 10:1)

(Metal cutting)

VOROB'YEV, S.A., kand.tekhn.nauk, otv.red.; KONOVALOV, A.I., inzh., red.; MAKARENKO, V.P., inzh., red.; MIKHEYEV, M.V., inzh., red.; NOVIKOVA, N.T., inzh., red.; PIKHTOVNIKOV, R.V., prof., red.; PODLOZHENOV, P.M., inzh., red.; SEMKO, M.F., prof., red.; TOROPOV, A.I., inzh., red.; TSERKOVNYY, I.M., inzh., red.; CHERKASHIN, I.P., inzh., red.; SHEVCHENKO, M.G., tekhn.red.; LIMANOVA, M.I., tekhn.red.

[Mechanization and automation of production processes; proceedings of the city technical conference] Mekhanizatsiia i avtomatizatsiia proizvodstvennykh protsessov; sbornik materialov gorodskoi tekhnicheskoi konferentsii. Khar'kov, Khar'kovskoe knizhnoe izd-vo, 1959. 295 p. (MIRA 13:1)

1. Kommunistiche skaya partiya Ukrainy. Khar'kovskiy gorodskoy komitet. 2. Nachal'nik Ukrainskoy proyektno-konstruktorskoy kontory "Prommekhanizatsiya".(for TSerkovnyy).

(Automation) (Technological innovations)

AUTHORS: Semko, M. F. and Palatnik, L. S.

TITLE: The Sensitivity of the TEMF of the "Natural Thermocouple" to Structural Changes in High Speed Steel (O chuvstvitel'-nosti TEDS "Yestestvennoy Termopary" k strukturnym izmeneniyam v bystrorezhushchey stali)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1959, Vol 6, Nr 1, pp 48-52 (USSR)

ABSTRACT: The method of the "natural thermocouple" has found wide application for the determination of the temperature of the working parts of instruments during cutting of metals. It is based on the fact that the temperature is determined according to the thermoelectromotive force (thermo-e.m.f.) forming in the thermocouple, the elements of which are the cutter and the article. The point of contact between the cutter and article is taken as the hot junction of the thermocouple. The aim of the present work was to investigate the relationship between the thermo-e.m.f. of the "natural thermocouple" and the heat treatment of high-speed steel R18, as well as the influence of the duration of holding at

The Sensitivity of the TEMF of the "Natural Thermocouple" for Structural Changes in High Speed Steel

e.m.f. of normally treated steel R18. For the measurement of the thermo-e.m.f. an apparatus was used which is shown in The thermo-e.m.f. of "natural thermocouples" formed Fig.1. by steel R18 after appropriate heat treatment, and that of three metals (copper, perlitic cast-iron and steel ST5) was The lower ends of the specimens, except for a few small contact points, were covered by an insulating layer of asbestos and placed in a crucible filled with Wood's metal or tin. The molten metal heats the ends of the specimens up to the required temperature and established electrical contact between the non-insulated parts of the The temperature of the hot junction of the thermocouple thus formed is controlled by a thermocouple immersed in the crucible with the specimens. The contacts of the specimens with copper connecting wires across mercury which was put in the cylindrical grooves of the specimens served as cold junctions. Chills were placed on the upper ends of the specimens through which cold water was circulated. The thermo-e.m.f. was measured by a compensation method. The determination of the thermal capacity of specimens of Card 2/5 steel R18 was carried out by the Gruzin method (Ref.1).

The Sensitivity of the TEMF of the "Natural Thermocouple" for Structural Changes in High Speed Steel

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The investigated steel R18 had the following chemical composition: 0.75% C, 18.3% W, 4.57% Cr, 1.55% V, 0.3% Mo. Heat treatment was carried out in various ways as shown in the table on p.49. In Fig.2 the TEMF of specimens of steel R18 in relation to steel ST5 is shown: - (1) as annealed, (2) as quenched, (3) as quenched and tempered three times, (4) as quenched and tempered three times after the tenth soaking at 550°C. Fig. 3 shows the TEMF of specimens of steel R18 in relation to copper (the details are as in Fig. 2). Fig. 4 shows the EEMF at 200, 300, 400 and 450°C of normally heat treated specimens of steel R18 after various numbers of isothermal soakings at 550°C (in relation to copper). The following conclusions are arrived at: 1. In the temperature range 20-800°C the thermo-e.m.f. of the "natural thermocouple" of the steel R18 changes continuously and smoothly with variation in preliminary heat treatment. At approximately 550°C the curves of the thermo-e.m.f. of the "natural thermocouples" "Steel R18-Card 3/5 St5" and "Steel R18-Jast-iron" experience a considerable

The Sensitivity of the TEMF of the "Natural Thermocouple" for Structural Changes in High Speed Steel

decline in the increase of the thermo-e.m.f. with temperature, and the curve for the thermo-e.m.f. of the thermocouple "Steel R18-Copper" has a maximum at approximately 500-550°C. 2. Up to 500°C thermo-e.m.f. of quenched steel is less than that of annealed steel. After tempering steel which had been quenched from 1280°C, the thermo-e.m.f. increases. Repeated tempering at 560°C has no noticeable influence on the thermo-e.m.f. The thermo-e.m.f. and hardness of normally heat treated steel R18 remain stable on heating to a temperature not exceeding 580°C. Heating to 600°C, whilst not influencing the thermo-e.m.f., lowers the hardness (to 52 Hg.). After "defective" and normal heat treatment (quenching from 1100°C, tempering at 180°C; and quenching from 1280°C, tempering at 560°C, respectively) the thermoe.m.f. and hardness have practically the same values. the control of the quality of heat treatment of cutters by the thermo-e.m.f. method is in general not effective, but can be used in particular cases, e.g. for detecting whether Card 4/5 cutters have been tempered after quenching.

The Sensitivity of the TEMF of the "Natural Thermocouple" for Structural Changes in High Speed Steel

3. Structural changes occurring in the zone undergoing wear of cutters made from steel R18 do not basically influence the thermo-e.m.f. at temperatures of up to 800°C. As the temperature is raised to 500°C the thermal capacity of normally treated high speed steel R18 remains practically unaltered and hence cannot cause any noticeable changes in the readings of the "natural thermocouple".

4. As a result of the investigations carried out it can be said that the "natural thermocouple" method is experimentally sound. However, above approximately 550°C the sensitivity of this method drops noticeably. There are 4 figures, 1 table and 2 Soviet references.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut (Kharkov Polytechnic Institute)

SUBMITTED: May 6, 1957

Card 5/5

SEMKO, M.F.; BONDAR', V.I.

Investigating the averaging of the thermoelectromotive force of natural thermocouples. Trudy KhPI,Ser.mash. 19 no.5:19-29 '59.

(MIRA 14:9)

(Thermocouples)

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	Berusin, B.I. (Chief Engineer of the Khar'kov Turbino Plant Lieux Klrov), and V.A. Noskov (Deputy Chief Process Engineer). Experience 101 in Mochanization and Automation
	FAME OF CONTENTS: Shubenko-Shubin, L.A. [Corresponding Member of the Academy of Sciences Shubenko-Shubin, L.A. [Corresponding Member of the Khar'kovakiy turbinnyy tavod of the Uncide, Chief Designer of the Khar'kovakiy turbinny tavod Khar'kov Turbine Plant!, The Development of Stunm-Turbine Building At the Khar'kov Turbine Plant ireni Kirov
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SEMKO, Mikhail Fedorovich; ATROSHCHENKO, Vasiliy Ivanovich; NESTERENKO, Yu.Yu., red.

[For the development of cooperation between the workers of science and production] Za razvitie sodruzhestva rabotnikov nauki i proizvodstva. Khar'kov, Izd-vo Khar'kovskogo gos. univ., 1961. 106 p. (MIRA 18:1)

S/123/62/000/016/011/013 A004/A101

AUTHORS:

Bezzubenko, N. K., Semko, M. F.

TITLE:

Reaming with mineral-ceramic reamers

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 16, 1962, 60, abstract 16B362 ("Tr. Khar'kovsk. politekhn. in-ta", 1951,

v. 35, 157 - 170)

TEXT: A new method of fastening mineral-ceramic bits to the reamer body has been developed, viz. gluing with epoxy-base resin glues. The gluing method ensures a high strength of Joint and makes it possible to work out a simple and convenient tool design. A brief description is given of a 4-tooth reamer with glued-on LM-332 (TsM-332) bits. These reamers were tested on the 1K62 universal lathe in machining CT45 (St45) grade steel parts of 35 mm length, 120 mm 0.D., diameter to be machined - 43 mm, v = 108 m/min, s = 0.43 mm/rev and t = 0.2 mm, and 18 - 36 cast-iron parts of 180 - 196 HB hardness, 100 mm long, 95 mm 0.D., diameter to be machined 50 mm, v = 200 m/min, s = 0.6 mm/rev, t = 0.2 mm in the first pass and v = 250 m/min, s = 0.6 mm/rev and t = 0.07 mm in the second pass. The blanks being machined were clamped in the chuck, the reamer in the tail stock spindle. The tests showed that in machining steel and cast iron with mineral-ceram-Card 1/2

Reaming with mineral-ceramic reamers

S/123/62/000/016/011/013 A004/A101

ic reamers the wear shows most pronounced on the reamer cutting blade. In machining cast iron, scratches are appearing across the calibrating blade which have a pitch equal to the feed, these scratches being transformed to notches (grooves) in the course of the operation. The surface finish of steel parts is superior to that of cast-iron parts. The authors present data on the machining quality and sharpening of the reamers. There is 1 reference.

E. Dymova

[Abstracter's note: Complete translation]

Card 2/2

s/0276/64/000/002/肛73/豇73

AR4027702 ACCESSION NR:

SOURCE: RZh. Tekhnologiya mashinostroyeniya, Abs. 2H1036

AUTHOR: Bezzubenko, N. K.; Semko, M. F.

TITLE: Choice of the geometric parameters of mineraloceramic reamers

CITED SOURCE: Tr. Khar'kovsk. politekhn. in-ta, v. 46, no. 8, 1963, 127-134

TOPIC TAGS: mineral ceramic reamer, cutting edge, annular groove, optimum angle, band wear, band width calibration, micro-chipping, radial force

TRANSLATION: Experiments in determining the optimum geometric parameters of mineral-ceramic reamers were made on a lathe. The plan approach angle ϕ was determined by testing the heardness of the cutting edge in machining parts with determined by testing the heartness of the cutting edge in magnifing parts with inside annular grooves. In reamers with phi = 450 failure of the top occurred after 2,000 bites in those with phi = 300 after 3,000; the least wear of the calibrating band was shown by reamers with phi = 200 (in milling grooveless calibrating band was shown by reamers with phi = 200 (in milling grooveless bushings). This angle size is recommended as antimum. bushings); this angle size is recommended as optimum. It was found that the back rake angle gamma, equal to 0°, is optimum for mineral — ceramic reamers.

1/2 Card

ACCESSION NR: AR4027702

The relief angle in the plane normal to the main cutting edge alpha, was determined by the resistance of the reamers, the highest being shown by those with alpha, 8-10°. The graph of the dependence of the wear on the band upon the back angle of the tooth in radial cross-section shows that the optimum value of the relief angle of calibrating part alpha, is 6°. Narrow calibrating bands lower the resistance of the tooth and increase the wear as a result of microchipping; a broad band results in more intensive wear due to growth in the radial forces of elastic deformation and the friction forces. The optimum width was found to be 0.5--0.6 mm. Four illustrations, bibliography of 5 titles. S. Pinchuk.

DATE ACQ: 24Mar64

SUB CODE: ML

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 $C_{ard} 2/2$

SEMKO, M.F., prof.; BASKAKOV, I.G., kand. tekhn. nauk; DROZHZHIN, V.T., inzh.; KACHER, V.A., kand. tekhn. nauk; RUDNEV, A.V. kand. tekhn. nauk, retsenzent; KUNIN, P.A., inzh., red.

[Mechanical processing of plastics; cutting] Mekhanicheskeia obrabotka plastmass; frezerovanie. Moskva, Mashinostroenie, 1965. 131 p. (MIRA 18:4)

SEMKO, M.F., prof.; BASKAKOV, I.G., kand. tekhn. nauk; IROZHZHIN, V.I., inzh.; KACHER, V.A., kand. tekhn. nauk; RUDNEV, A.V., kand. tekhn. nauk, retsenzent; KUNIN, P.A., inzh., red.

[Machining plastics; milling] Mekhanicheskaia obrabotka plastmass; frezerovanie. Moskva, Mashinostroenie, 1965. 131 p. (MIRA 18:3)

SEMKO, M.F., Fand, tekhn. nauk; GRABCHENKO, A.I., inzh.; UZUNYAN, M.D., inzh.

Effect of the binder on the performance of diamond wheels.
Mashinostroenie no.5:24-26 S-0 165. (MIRA 18:9)

	L 063311-67 EWF(k)/EWT(m)/EWP(t)/ETI IJP(c) DJ/JD ACC NR: AR6013843 (A, N) SOURCE CODE: UR/0276/65/000/011/B102/B102
	AUTHORS: Semko, M. F.; Baskakov, I. G.
: : :	TITLE: Calculation of thermal deformation in solid and hollow cylindrical parts during machining
	SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 118705
	REF SOURCE: Vestn. Khar'kovsk. politekhn, in-ta, no. 1(49), 1965, 6-13
	TOPIC TAGS: metal cutting, metal machining, thermal deformation
	ABSTRACT: Experiments and calculations have shown that, during machining of specimens with straight cut-off tools, the principal factor affecting the magnitude of the overall temperature error is the temperature error due to the elongation of the cutting tool. For accurate work the cutting tool length should be minimized. With increased cutting speed and feed rate the temperature of the part decreases; however, the total accompanying thermal deformation is much greater than the decreased thermal deformation of the part. 4 illustrations. Bibliography of 3 titles. L. Tikhonova Translation of abstract
	Card 1/1 /h = 621.941.01

SEMKO, P.

Agriculture - Ukraine

Progress of agriculture along the South-Ukraine Canal. Kolkh. proizv 12, No.3, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

SEMKO, P.

Ukraine - Irrigation Farming

Prospects for developing collective farm production in the area of the South Ukrianian Irrigation Canal. Sots.sel'khoz. 24, No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

CIA-RDP86-00513R001547920006-7 "APPROVED FOR RELEASE: 08/09/2001

SEMKO, R.S. Effect of predaceous fishes on the amount of young of the salmon

family. Trudy probl.i tem.sov. no.6:150 '56.

1. Kamchatskoye otdeleniye Tikhookeanskogo instituta rybnogo khozyaystva i okeanografii. (Bol'shaya River -- Salmon) (Trout)

(MLRA 9:10)

SEMKO, R.S.

New data on the western Kamchatka salmon [with English summary in insert] Zool.zhur.35 ne.7:1017-1022 Jl '56. (MIRA 9:9)

1.Kamchatskoye otdeleniye Tikhookeanskogo instituta rybnogo kho-zyaystva.

(Kamchatka--Salmon)

YEGOROVA, T.V.; KROGIUS, F.V.; KURENKOV, I.I.; SEMKO, R.S.

Causes of variations in the abundance of sockeye salmon in the Ogernaya River. Vop. ikht. 1 no.3:439-447 '61. (MIRA 14:11)

l. Kamchatskoye otdeleniye Tikhookeanskogo nauchno-issledovatelskogo instituta rybnogo khozyaystva i okeanografii - TINRO. (Ozernaya River (Kamchatka)--Salmon)

SEARC, R.S.

Recent changes in the abundance of Pacific salmons and their principal causes. Trudy sov. Ikht. kom. no.13:117-129 '61. (MIRA 14:8)

1. Kamchatskoye otdeleniye Tikhookeanskogo nauchnoissledovatel'skogo instituta rybnogo khozyaystva i okeanografii. (Pacific Ocean—Salmon fisheries)

PAVLOVSKIY, Ye.N., akademik, glav. red.; MOISEYEV, P.A., ctv. red.; GFIRMOV, A.I., zam. ctv. red.; BIRMAN, I.B., red.; KAGAMOVSKIY, A.G., red.; KROGIUS, F.V., red.; KROKHIN, Ye.M., red.; KURENKOV, I.I., red; LAGUMOV, I.I., red.; FARIN, K.I., red.; SEMKO, R.S., red.; FARIN, N.V., red.

[Salmon fisheries of the Far East; materials] Lososevoe khoziaistvo Dal'nego Vostoka; materialy. Moskva, Nauka, 1964. 201 p. (MIRA 17:9)

1. Soveshchaniye po voprosam lososevogo khozyaystva Dal'nego Vostoka. 3d, Petropavlovsk-Kamchatskiy, 1960. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii (for Moiseyev). 3. Kamchatskoye otdeleniye Tikhockeanskogo nauchno-issledovatel'skogo instituta rybnogo khozyaystva i okeanografii (for Semko, Birman, Krokhin, Kurenkov). 4. Kafedra ikhtiologii Moskovskogo universiteta imeni M.V.Lomonosova (for Smirnov).

L 50211_65 EWT(m)/EPF(c)/EPR/EWP(j)/T Pc-4/Pr-4/Ps-4 RPL WW/GS/RM
ACCESSION NR: AT5002656 S/0000/64/000/000/0024/0030 33
AUTHOR: Shrubovich, V.A.; Chernyavskiy, G.V.; Semko, Yey P.; Kornev, K.A. Bt/

TITLE: Polymerization and copolymerization of 1,2-dialin

SOURCE: AN UkrSSR. Institut khimii vysokomolekulyarnykh soyedineniy. Sintez i fizikokhimiya polimerov; sbornik statey po rezul'tatam nauchno-issledovatel'skikh rabot (Synthesis and physical chemistry of polymers; collection of articles on the results of scientific research work). Kiev, Naukova dumka, 1964, 24-30

TOPIC TAGS: dialin polymerization, dialin copolymerization, isoprene copolymer, styrene copolymer, methyl methacrylate, sodium naphthalene catalyst

ABSTRACT: The authors polymerized 1,2- and 1,4-dihydronaphthalenes in tetrahydro-furan at -80, 0 and +40C with varying amounts of sodium naphthalene catalyst and attempted to copolymerize these dialins with styrene (-80C, 48 hrs.), isoprene (-65C, 48 hrs.) and methylmethacrylate (standard conditions) in an attempt to obtain materials with improved heat resistance and solubility in standard solvents. It was found that anionic polymerization of 1,2-dialin is possible in the presence of sodium naphthalene, while the 1,4-isomer does not yield a polymer under these conditions. The former

Card 1/2

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copolymerized with styrene and iso description is given of the experim Orig. art. has: 3 figures and 3 tab ASSOCIATION: Institut khimil vyso	ental procedure, polym les. okomolekulyarnykh soyo	er composition and properties.	
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SUBMITTED: 22Jun64	ENĆL: 00	SUB CODE: OC	
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S/105/61/000/008/001/004 E194/E155

9,3240

Kharchenko, R.R., Professor, and

Semko, Yu.I., Engineer.

(Moscow)

TITLE:

Measuring amplifiers for centralised automatic control

systems

PERIODICAL: Elektrichestvo, 1961, No.8, pp. 7-13

TEXT: The object of this article is to provide a general review of d.c. amplifiers operating under impulse conditions with input signals ranging from a few millivolts to some tens of millivolts and with output signals of $1-10\ V$. The type of amplifiers considered are those which accurately reproduce the signal; mis-match or zero-type amplifiers are excluded. Only electronic amplifiers are considered because magnetic amplifiers are not sufficiently accurate and galvanometer amplifiers not sufficiently fast. Amplifier errors are subdivided into two classes. The first class includes errors due to stray noise and zero drift; these errors are denoted by γ , which is the ratio of the stray signal to the rated output signal. It is shown that such errors depend not only on the magnitude of γ but also on the point of the Card 1/8

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Measuring amplifiers for centralised. S/105/61/000/008/001/004 E194/E155

The second class of errors is amplifier scale considered. associated with instability of the amplification factor and nonlinearity of the amplitude characteristic. The error is denoted by λ which is the ratio of the variation in the amplification factor at an arbitrary point on the scale to the rated output. In a linear amplifier the amplitude depends only on the value of $\;\lambda$ and not on the magnitude of the amplified signal (or point on the This is also approximately true for a non-linear amplifier. If both sources are to give the same error at a given point on the scale the error γ must be much less than the error $\tilde{\lambda}$. Accordingly it is of primary importance to reduce zero drift and noise. Consideration is then given to those stages in the structural circuit of the amplifier which mainly govern the value of γ and λ , and it is shown that in a three-stage amplifier with negative feedback the value of λ does not depend on the coupling between the stages, whereas the value of y does. In practice, in simple three-stage amplifiers γ depends mainly on the first stage. The simple circuit of Fig.1 is then considered; here β denotes the feedback transmission factor. A numerical example shows that in this case the requirements in respect of zero drift and noise Card 2/8

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are very severe. Amplifiers with schematic diagrams similar to Fig. 1 normally have three stages; a modulator, an a.c. amplifier and a demodulator. The modulators may be of various types but only vibrator modulators have sufficiently low stray noise. Consequently only such mechanical modulators can be used in highly accurate amplifiers for small signals using the circuit of Fig.l. However, the speed of operation of such an amplifier is quite inadequate. Accordingly more complicated d.c. amplifiers have been developed. They may be classified into two groups: the first employs a combined system for transmitting the amplified signal (such as two parallel channels, one low-frequency and one high, with common feedback) with no device for zero drift correction. The second group includes amplifiers in which the signal passes through one wide-band d.c. amplifier with a device for zero drift correction. The article proceeds to consider six schematic diagrams of special amplifiers of which the first two are of the first class just mentioned and the remainder of the second. The first schematic diagram considered is that of Fig. 2, in which the notation is as follows: Y, - a.c. amplifier; YHC - direct-coupled d.c. amplifier;

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Measuring amplifiers for centralised....E194/E155

😤 - summator at input of direct-coupled d.c. amplifier; MAM- d.c. amplifier with modulator at input and demodulator at output; 00C - negative feedback link; 0 - filter. Amplifiers of this circuit based on transistors have been described in the literature. The second schematic diagram considered differs from the first only in the absence of the a.c. amplifier. Both types may be equal in respect of noise level; several variants have been constructed. The schematic diagram of the next amplifier considered is shown in Fig. 4 where the notation is as hitherto with the addition that: B凯 is a vibrator converter; 凡g is a motor; and P is a reduction gear. In this amplifier the zero drift of the wide-band d.c. amplifier is periodically corrected. The correcting device consists of a follow-up system which automatically reduces the zero drift voltage to the threshold of sensitivity of the amplifier. A disadvantage is that there are periodic interruptions in the The next circuit considered is a operation of the main amplifier. development of the previous one; the use of a motor is avoided, thus improving the dynamics of the system and reducing its size. In this case a capacitor is connected across the feed-back circuit. Card 4/8

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Measuring amplifiers for centralised... S/105/61/000/008/001/004 E194/E155

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However, the accuracy of zero drift correction is limited by the presence of zero drift in the feed-back circuit itself. amplifiers of this type it is important correctly to select the time interval between two successive corrections, which depends on the nature of the zero drift of the d.c. amplifier. circuit considered is that of Fig. 6, in which the notation is as before with the addition that A is a voltage divider. type of amplifier the zero drift of the d.c. amplifier is continuously corrected by means of a static follow-up system. An essential condition for normal operation of an amplifier of this type is that the amplification factor of the d.c. amplifier should be in exact agreement with the value of the reciprocal of the dividing factor of the voltage divider. Since the voltage divider ratio is constant, any change in the amplification factor of the d.c. amplifier introduces some zero error; the d.c. amplifier must therefore have a stable amplification factor. The final type of circuit considered is that of Fig.7 in which zero drift is continuously corrected by an astatic follow-up system. The mismatch signal is applied to the input which consists of a vibratory converter, a phase-sensitive a.c. amplifier, a reversing Card 5/8

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motor and a reduction gear. These are all standard components of an automatic electronic potentiometer. If the zero drift exceeds the threshold of sensitivity of the device, the follow-up system automatically balances the d.c. amplifier and annuls the zero drift. As zero drift is quite slow the follow-up system can easily correct it. In general, this system is better than the previous Its bandwidth depends on the natural frequency characteristic of the d.c. amplifier. Investigations have shown that amplifiers of this type are promising. In an experimental model the remanent zero drift did not exceed some tens of microvolts during four hours, and instability of the d.c. amplification factor was of the order There are 7 figures and 34 references: 26 Soviet and The four most recent English language references 8 non-Soviet.

Ref. 22: T.J. Marcus. "Highly sensitive electronic chopper".
Electronics, 1959, V.32, No. 40.

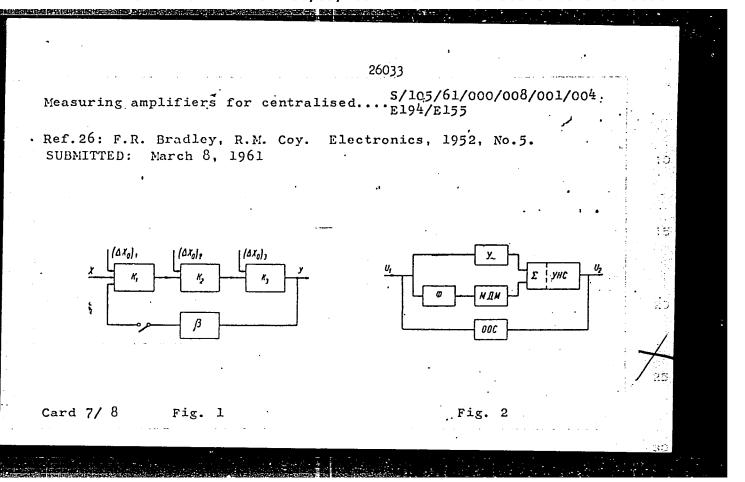
Ref. 28: B. Shackl and M. Beaney. "A zero correcting for use with d.c. amplifiers". Electronic Eng., 1957, V.29, No. 352.

Ref. 32: J. Cederbaum, P. Balaban. "Automatic drift compensation in d.c. amplifiers". Rev.Sc.Instr., 1955, No. 8.

Card 6/8

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APPROVED FOR RELEASE: 08/09/2001



SEMKO, Yu.I.; SOLODOV, Yu.S.; LEVIN, M.I.

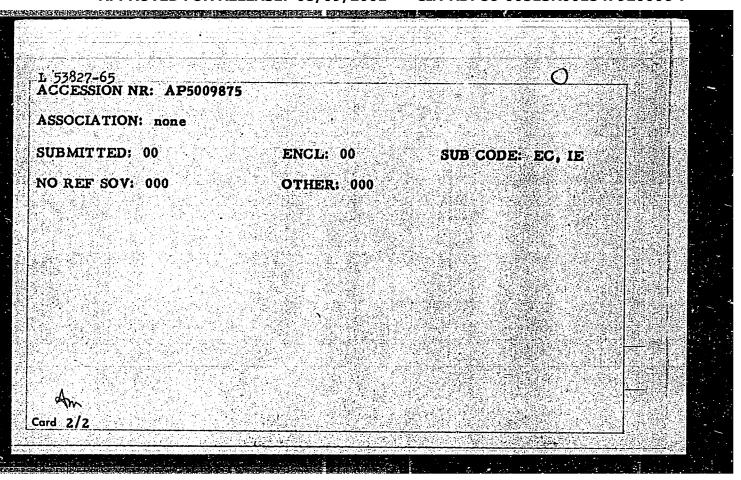
Analog to digital function converter for a.c.transducers for scanning control systems. Izm.tekh. no.11:35-39 N '61. (MIRA 14:11) (Electronic calculating machines)

KONCHALOVSKIY, V.Yu.; MALINOVSKIY, V.N.; SEMENOV, V.F.; SEMKO, Yu.I.

Parameters of switching transistors. Izm.tekh. no.12:41-43
D '62. (MIRA 15:12)

(Transistors)

_ 53827-65 ENT(d)/EV	T(1)/EEC(m)/EEC(f)/EWP(v)/EEC-4/EWP	(k)/EMP(h)/EWA(h)/E	WP(1)
ACCESSION NR: AP50	09875 Pq-4/Pf-4/ Peb/Pg-4	UR/0115/65/000/0	02/0044/0046	元 一十
AUTHOR: Levin, M. I			likhaylov, Ye. V.	š
IITLE: Encoding the o	utput signals of pu	ilse-supplied M-var	sensors (
SOURCE: Izmeritel'na	ya tekhnika, no. 2	, 1965, 44-46	V	
TOPIC TAGS: mutual i	nductance sensor	sindustrial process	control U	
ABSTRACT: As the me	asurement proces	ss with a variable-m	utual-inductance	
(M-var) sensor of a diff commercial 50 cps has	been slow, the au	thore suggest supply	ing the sensor with	
f-msec sawtooth pulses 2 msec, an output rang				
oulse tilt angle by ± 10%	resulted in an ad	ditional error of ± 0 .	8%. Variation of	
he supply voltage of an noticeable error. Only				
l0 formulas.				
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L 00008-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1)

ACCESSION NR: AR5008446

UR /0271/65/000/002/A035/A035 621.398.694

43

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitelinaya tekhnika. Svodnyy tom, Abs. 2A208

AUTHOR: Levin, M. I.; Semko, Yu. I.; Semenov, V. F.; Solodov, Yu. S.; Yevtikhiyev, N. N.; Mozheyko, A. A.

TITLE: Measuring units of the "Tsentrotekhnika"system

CITED SOURCE: Tr. Mosk. energ. in-ta, vyp. 52, 1963, 133-146

TOPIC TAGS: supervisory control system / Tsentrotekhnika system

TRANSLATION: Measuring units are described of the "Tsentrotekhnika" supervisory control system. The system is designed for operation with several types of thermocouple sensors, resistance thermometers, and differential-transformer sensors. For each type, special measuring units have been developed which connect the sensor output with the nonelectric measurands and convert them into a binary digital code. Each measuring unit is constructed as a separate adapter which includes all measuring elements. By means of a special plug-and-socket

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L 34038-66 ACC NR: AP6013010

SOURCE CODE: UR/0410/66/000/001/0033/0040

AUTHOR: Levin, M.I. (Moscow); Semko, Yu. I. (Moscow)

ORG: none

TITLE: The determination of the parameters of periodic signals from the measurement of

their instantaneous values

SOURCE: Avtometriya, no. 1, 1966, 33-40

TOPIC TAGS: signal analysis, electronic equipment, measuring instrument

ABSTRACT: The general properties of the method for the determination of periodic voltages and currents from the measurements of their instantaneous values have been studied. This approach makes it possible to determine amplitudes, phase shifts, and instantaneous and average values of the fundamental frequency as well as of the higher harmonics. The present article describes an analysis of the errors in the registration of the parameters in question. In the zero to several kilocycle band the error is from 0.1-0.5%. An interesting feature of this method is the increase in accuracy with the decrease in signal frequency. On the basis of the new method, the authors propose block diagrams for the possible design of fast digital devices and a.c. converters (automatic digital potentiometers, a.c. bridges, spectral analyzers, etc.). Orig. art. has: 11 formulas, 6 figures, and 1 table.

SUB CODE: 09, 14 / SUBM DATE: 18Sep65 / ORIG REF: 003 / OTH REF: 004

UDC: 621.317.312

UR/0115/66/000/002/0038/0041 8 IJP(c) SOURCE CODE: EWT (d)/EWP(1) 22773-66 AP6010871 TITLE: Digital conversion of M, L, C, and R parameters using pulsed ACC NRI AUTHOR: ORG: none Izmeritel'naya tekhnika, no. 2, 1966, 38-41 TOPIC TAGS: analog digital converter, parametric converter power supply ABSTRACT: A method of digital conversion of M (mutual inductance) ABSTRACT: A method of digital conversion of M (mutual inductance), type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type output signals proposed earlier by M. I. Levin et al. has been type ou expanded to include other parameters—L (inductance), Capacitance), and R (resistance). In this method, pulses of a special shape are fed to the converters and rectangular pulses with an amolitude proportions and K (resistance). In this method, pulses or a special snape are red to the converters, and rectangular pulses with an amplitude proportional to the value of the narameters are represented at the cutout. to the converters, and rectangular pulses with an amplitude proportion to the value of the parameters are generated at the output. to the value of the parameters are generated at the output. by means conversion of the amplitude is performed in a single pulse by means of a dec analogediaital convertor. conversion of the amplitude is performed in a single pulse by means of a d-c analog-digital converter. To obtain rectangular voltage, or a d-c analog-digital converter. to obtain rectangular voltage, emf, or current pulses at the output of the converters, pulses of the emt, or current pulses at the output of the converters, pulses of the Kit, and current pulses in the converters in the converters in the converters in the converters can see following shapes are fed; sawtooth current pulses in the converters can converters; and rectangular current converters can converters. The converters can upon the converters can converters in the converters can converters in the converters. The converters can upon the converters can converters in the converters can converters in the converters.

SEMKOV, Angel, prepodavatel; CHOKOYEV, Zhivko, prepodavatel; OSTAPEHKO, N.N., red.; PASTUKHOV, V.M., red.; KOVAL'ZOH, F.P., red.; DORODNOVA, L.A., tekhn.red.

[Training workers in machining metals in industrial schools]
Podgotovka rabochikh po metalloobrabotka v promyshlennykh uchilishchakh. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat.
1960. 44 p. (MIRA 13:11)

 Promyshlennoye uchilishche po metalloobrabotke goroda Ruse Bolgarskoy Narodnoy Respubliki (for Semkov, Chokoyev). (Machine shop practice--Study and teaching)

SEMKEV, B.1

AUTHOR:

Semkov, B. F.

30-1-9/39

TITLE:

Small-Size Computers (Malogn baritnyye vychislitel'nyye

mashiny)

PERIODICAL:

Vestnik AN SSSR, 1958, Vol. 28, Nr 1, pp. 60-64 (USSR)

ABSTRACT:

In the laboratory for machines and systems of control of the AN USSR the small-size computers M-2 and M-3 were developed under the supervision of Corresponding Member AN I. S. Bruk. The machine M-2 fills a surface of 22 m2 and has 1600 electron tubes and lo ooo diodes. The machine M-3 has 770 electron tubes and about 4000 diodes. With respect to working velocity (2000 operations per second) and accuracy (up to lo decimals is by no means inferior to the large computer "Strela". The first M-2 machine has already been in operation for more than 3 years (see illustration), and numerous problems belonging to various fields have already been solved by it . The computer M-3 was built in 1956 by the scientific research institute of the electric industry (see illustration). It is not quite as efficient as the M-2. The M-3 computer is operated by 1 man only per shift, and can work with interruptions,

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Small-Size Computers

30-1-9/39

whereas other machines take a considerable time after being switched off before being fit for operation. The M-3 has been working 'or 1 year and numerous important problems have been solved with it. As practice has shown that it can be used for work in various fields, it is intended to produce this machine in series within short. In order to increase the speed of development of computation technique, it is planned to have elements of computer produced in series by industrial plants. There are 2 figures.

AVAILABLE:

Library of Congress

1. Electron computers-Application

Card 2/2

SOV/30-58-8-10/43

AUTHORS:

Blagonravov, A. A., Member, Academy of Sciences, USSR,

Semkov, B. F.

TITLE:

The Science and the Tasks of Automation of Manufacturing Processes (Nauka i zadachi avtomatizatsii proizvodstvennykh

protsessov)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 8, pp. 69-77 (USSR)

ABSTRACT:

The change to full automation requires a knowledge of the laws of the manufacturing process, of a perfection of technology. It is connected with the introduction of new equipment, of new methods and technical means of automation. These problems can best be solved by the combined efforts of scientists, technologists, engineers and experts for automation. The establishment of fully automatized experimental model stations is the shortest way to this aim. Experience gathered from them can serve for other enterprises. Many scientific institutions of the Academy are linked up with this work. The achievements in the field of physics and chemistry play an important role in the introduction of automation. The chemical

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The Science and the Tasks of Automation of Manufacturing Processes

and the petroleum industry can best be adapted to full automation as they have continuous working processes. Such a plan of automation of ammonia production is carried out at present in the Lisichansk Combine which elaborated it together with the Gosudarstvennyy institut azotnoy promyshlennosti (State In-stitute for Mitrogen Industry) and a number of other scientific research- and planning organizations. Full automation is also introduced in the petroleum refinery at Moscow. The Institut metallurgii (Institute for Metallurgy) in association with the Institut avtomatiki i telemekhaniki (Institute of Automatics and Telemechanics) and the Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific Research Institute for Ferrous Metallurgy) are planning fully automatized metallurgical experimental production plants. The coal industry also offers possibilities for automation. In the field of machine construction many problems still remain to be solved. At present advances are made in the elaboration of preset course controls for machines and machine trains. The economic efficiency is the most interesting factor of automation. The Institut ekonomii Akademii

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The Science and the Tasks of Automation of Manufacturing Processes

nauk SSSR (Institute of Economics, AS USSR) as well as branch institutes and universities are asked to join in the study of the use of computers for planning and statistics. The development and introduction of new apparatus advances only very slowly. Many working procedures need automatic control with regard to the use of atomic energy in chemical and other industries. Therefore the development of the cybernetics is of great importance. For this purpose the Presidential Committee, AS, USSR, has asked the following scientific institutions to join in this effort: The Matematicheskiy institut (Institute of Mathematics), the Institute of Automatics and Telemechanics, the Laboratoriya upravlyayushchikh mashin i sistem (Laboratory for Control Machines and Systems), the Leningrad Branch of the Institute of Mathematics, the Institute of Economy, the Siberian Branch of the Academy, the Institut technoy mekhaniki i vychislitelincy tekhniki (Institute of Precision Mechanics and Calculating Techniques), Institut yazykoznaniya (Institute of Linguistics `, the Laboratoriya elektromodelirovaniya

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001547920006-7"

Vsesoyuznogo instituta nauchno-tekhnicheskoy informatsii (Labo-

SOV/30-58-8-10/43

The Science and the Tasks of Automation of Manufacturing Processes

ratory of Analog Computers of the All Union Institute of Scientific Information). The investigation of the biological problems of cybernetics will be carried out by the scientific institutions of the Otdeleniye biologicheskikh nauk (Department of Biological Sciences).

Card 4/4

5/030/62/000/009/001/002 1046/1242

AUTHOR:

Semkov, B.F.

Philosophical problems of cybernetics

Akademiya nauk SSSR. Vestnik, no. 9, 1962, 128-132 TITLE:

The theoretical cybernetics conference of the Academy of Sciences of the USSR was held in Moscow on July 1 and 2, 1962 with over 1000 participants. It dealt mainly with the application of cybernetics to enimate nature and human nevchics. As a Markov advanced a new definition of cybernetics. free of the PERIODICAL: psychics. A.A. Markov advanced a new definition of cybernetics, free of the psychics. A.A. Markov advanced a new definition of cybernetics, free of the concepts of "control" and "information," interpreting the subject as a general theory of courselity networks. Each event is reduced to a system consisting of theory of causality networks. Each event is reduced to a system consisting of a The various states are limbed by sevent is reduced to a system consisting of finite number of "points," each of which can occupy a finite number of states. The various states are linked by causality relations, either "rigid" or "non-rigid" (probability-type) which set in time this being a medium divided into The various states are linked by causality relations, either "rigid" or "non-rigid" (probability-type) which act in time, this being a medium divided into rigid" (probability-type) which act in time, the being a medium divided into rigid" (probability-type) which act in time, the being a medium divided into rigid" (probability-type) which act in time, the desirable reserved external exte of external stimuli with the purpose of obtaining the desirable reactions OI EXTERNET STIMULI WITH THE PURPOSE OF OUTSITHING THE GESTROLE REUCTION.

A.A. Lyapunov, in a paper "Gentrol systems of animate nature and general approach

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Philosophical problems...

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complete model of a living creature is necessarily a living creature, and the model of an intelligent being is an intelligent being in itself. The discussion that followed proved that any final conclusions on this subject would be

Card 3/3

JEMKON DIT

ACHARKAN, V.A.; BARSKOV, I.M.; BIRYUKOV, I.S.; BORODINA, L.Ya.; BRENNER, M.M.;

GOHELIK, B.Ye.; GUMEROV, M.N.; ZORKAYA, N.M.; IOYRYSH, A.I.;

KAYDALOVA, O.N.; KAPUSTIN, Ye.I.; LEBEDEVA, M.A.; LESHKOVTSEV, V.A.;

LYSENKO, V.P.; MARKIN, A.B.; MIKHAYLOV, N.N.; NEST'YEV, I.V.; NECHAYEV,

N.V.; NIKOL'SKIY, A.V.; OSTROUKHOV, M.Ya.; PISARZHEVSKIY, O.N.;

POLUBOYARINOV, M.M.; POPOV, YU.N.; PRASOLOV, M.A.; POKATAYEV, YU.N.;

RIMBERG, A.M.; RYABOV, V.S.; SEMKOV, B.F.; SPERANSKAYA, Ye.A.; TAKOYEV,

K.F.; TRIFONOVA, G.K.; TROFIMOVA, V.I.; SHAKHNAZAROV, G.Kh.; SHKAREN
KOVA, G.P.; SHMERLING, K.G.; EYDEL'MAN, B.I.; MIKAELYAN, E.A., red.;

MUKHIN, Yu.A., tekhn.red.

[U.S.S.R. as it is; a popular illustrated handbook] SSSR kak on est; populiarnyi illiustrirovannyi spravochnik. Moskva, Gos.izd-vo polit. lit-ry, 1959. 462 p. (MIRA 12:2)

(Russia)

SENKOV		nrohlema of crhernetics.	Vact. 4V SSSR 90	zo.9•328 <u></u>
	131 S '62.	problems of cybernetics. (Cybernetic	(MIR	A 15:9)
×.				

SEMKOV, Nikolai, inzh.; SHTIRKOV, fetur, inzh.; NESTOROVA, Penka, inzh.

Diagram and technological aspects of copper flotation in enriching lean copper ore from the "Medet" bed. Tekhnika
Bulg 13 no.7:13-15, 33 '64.

BELOUSOV, A.S., inzhener; KON'SHIN, P.P., inzhener; KANTOR, S.Z.:

SEMKOV, V.D.; SPORISHKOV, P.N.: TURITSYN, V.V.; CHIZHIKOV, Yu.M.

kandidat teknnicheskikh nauk.

Improve the quality of hollow bore steel. Metallurg 2 no.2:21-28 F 157. (MIRA 10:4)

1. Zavod "Serp i molot" (for Belousov, Kon'shin).2. TSentral'naya zavodskaya laboratoriya (for Kantor). 3. Starshiy kalibrovshchik Zavoda im. Serova (for Semkov).4. Nachal'nik prokatnoy laboratorii (for Sporyshkov). 5. Rukovoditel' sortovoy gruppy TSentral'noy zavodskoy laboratorii Zavoda "Krasnyy Oktyabr' (for Turitsyn). 6. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Chizhikov).

(Tool steel) (Boring machinery)

SEMKOV, V.D.

Efficiency in grooving 320 rolling mills rolls. Metallurg 10 no.2:24-26 F '65. (MIRA 18:3)

1. Starshiy kalibrovshchik metallurgicheskogo kombinata im. A.K. Serova.

SEMKOVSKAYA, K. V.

Orlov, P. M. and <u>Sepkovskava</u>, K. V. - "The application of the stereo-photographic method for the study of deformation of engineering structures." Doklady (Mosk. s. -kh. akad. im. Timiryazova), Issue 9, 1949, p. 157-58

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

SEMKOVSKIY, V.V., inshener; SYREYEV, I.I., inzhener.

More attention should be given to the production of new machines for the complete mechanization of the construction industry. Mekh.stroi. 10 no.8:

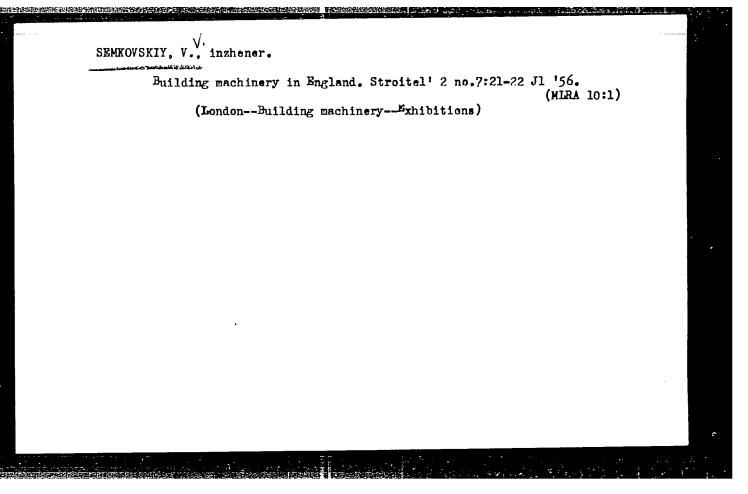
(MIRA 6:8)
3-6 Ag '53.

(Building machinery) (Machinery in industry)

SEMKOVSKIY, V.V.; SHAFRANSKIY, V.N.; KANTORER, S.Ye., kandidat tekhnicheskikh nauk, redaktor; DAKHNOV, V.S., tekhnicheskiy redaktor.

[Complex mechanization of construction work and problems] Kompleksnaia mekhanizatsiia stroitel'nykh rabot i voprosy ee effektivnosti. Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1956.174 p.

(Construction industry) (MIRA 9:4)



SEMEOVSKIY, V.V., inzhener.

Building and road machinery. Mekh.stroi.13 no.11:26-30 H '56.
(Building machinery) (Road machinery) (MLRA 9:12)

SEMKOVSKIY, V.V., inzh.

Planning over -all mechanization of construction for 1958. Biul. stroi. tekh. 15 no.3:10-12 Mr '58. (MIRA 11:3)

1. Gosstroy SSSR.

(Building machinery)

SZHKOVSKIY, V.V.; SHAFRANSKIY, V.N.; KAZARINOV, V.M., inzh., red.;

MORSKOY, K.L., red.izd-ve; BCROVNEY, B.K., tekhn.red.

[Over-all mechanization in construction and its efficiency]

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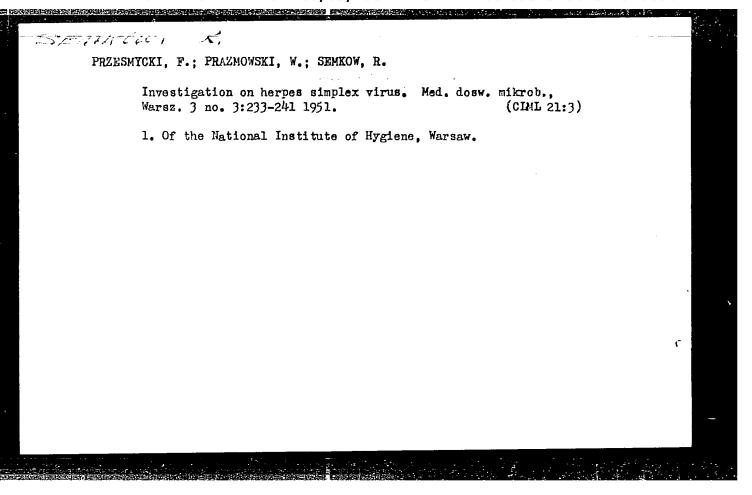
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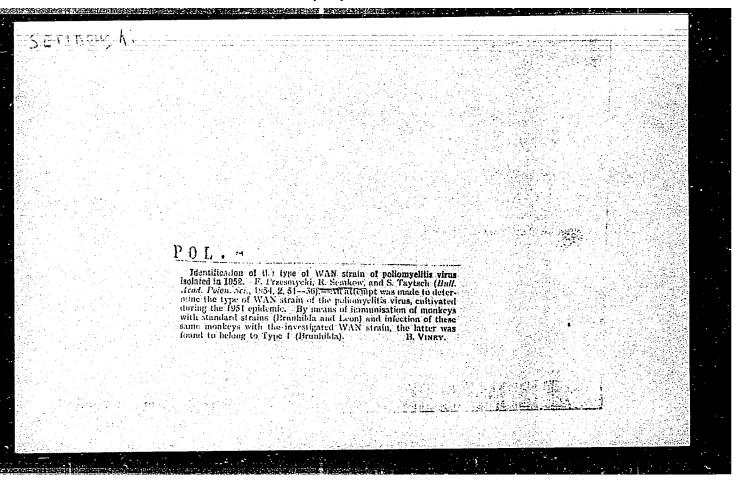
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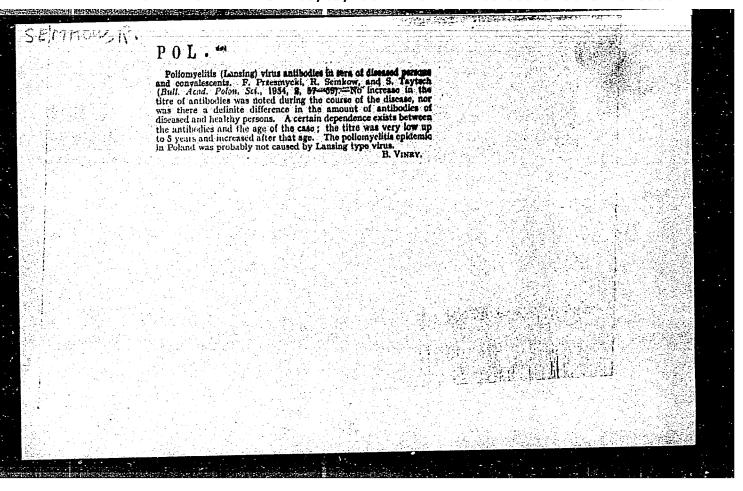
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5E	MKOW, R			1	
	POL	is virus in the evidence of 19 Kenczewa, R. Stańczyk, R. Sc. 100.50, 1954, 2, 47-50), and is given, together with the anatofollowing infection of monkeys. B. Vi	i51-52. mkow escripe comical		
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SEMKOW, ROMUALD

PRZEMYSKI, Feliks; TAYTSCH, Zofia; SEMKOW, Romuald; WALENTYNOWICZ-STANCZYK, Regina

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FRZEMYSKI, Feliks; TAYTSCH, Zofia; SEMKON, Romuald; WALKHTYNOWICZ-STANCEYK, Regina; KAMIENIECKA, Zofia; KIRKOWSKA, Irena

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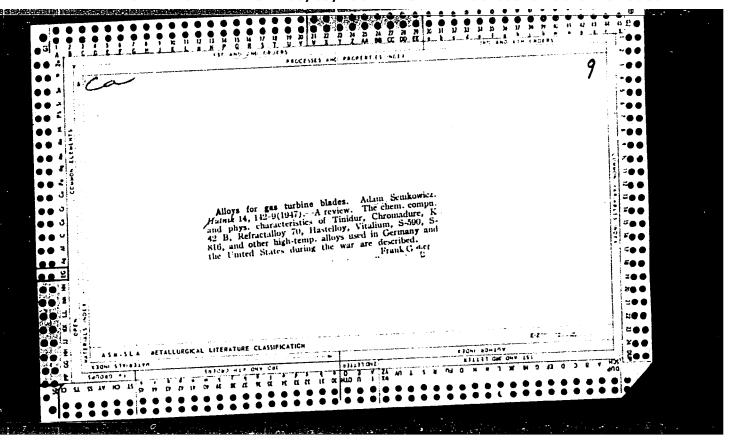
(ENCEPHALITIS, EPIDEMIC, experimental in monkeys)

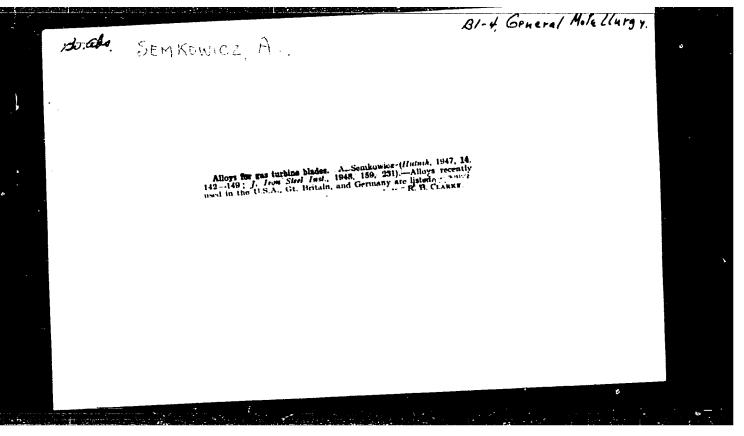
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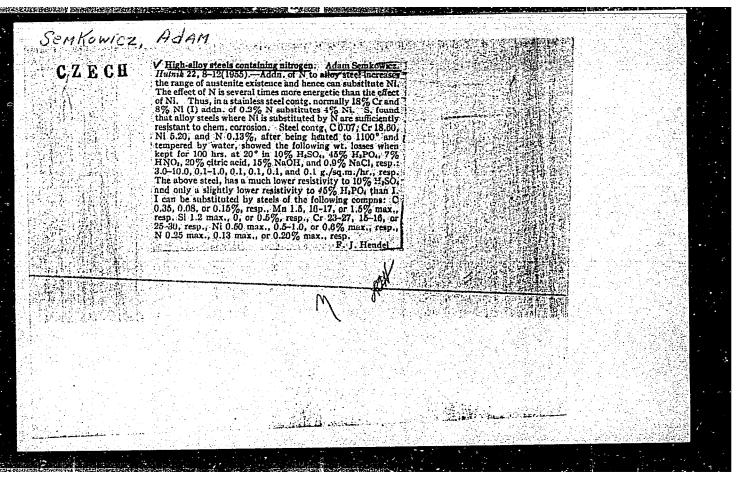
 Department of Experimental Pathology, Polish Academy of Sciences Director: Professor Dr L. Paszkiewicz. (BCG VACCINATION exper.)

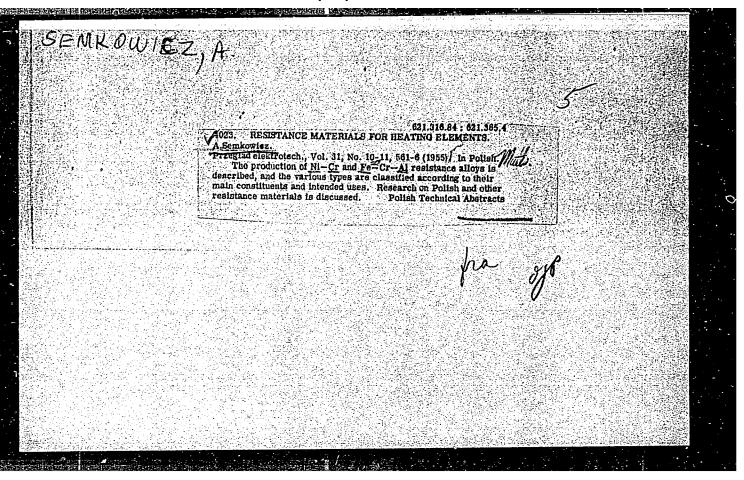
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	Bukala M., Majewski J., Semkowicz A. Automatisation of Laboratory Fractional Distillation, Process Control of destillation speed in laboratory columns. "Automatyzacja procesu destylacji frakcjonowane) w laboratorium. V. Elektronowy regulator szybkaści destylacji dla kolumn laboratory nych. Przemysł Chemiczny. No. 5, 1953, pp. 224—228, 5 figs. An electronic device has been designed for automatic control of distillation speed in laboratory columns. The device is based on the delectric properties of distilled liquids. An electric condenser of special design placed in the distillation head is used as indicator. The device is nadpled to control the process of fractional distillation of dielectric liquids, especially terpenes. The operation of the device is independent of the speed of distillation and its accuracy is on 5%.	





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Die mating of statiniess theel rabs. Britisk 31 no.6:211-212
Ja 164

1. Emildon Steel Vorks.

BARAN, Jozef; SEMKOWICZ, Andrzej; ZAKRZEWSKI, Jerzy

New system of the accelerated voltage stabilizer of the U-120 cyclotron. Nukleonika 7 no.11:737-740 '62.

1. Instytut Fizyki Jadrowej, Pracownia Cyklotronu, Krakow.

P/046/62/007/011/005/005 D256/D308

AUTHORS:

Semkowicz, Andrzej, Sulikowski, Jerzy, Szot, Walde-

mar and Zakrzewski, Jerzy

TITLE:

Cyclotron deflector voltage stabilizer

PERIODICAL:

Nukleonika, v. 7, no. 11, 1962, 741-742

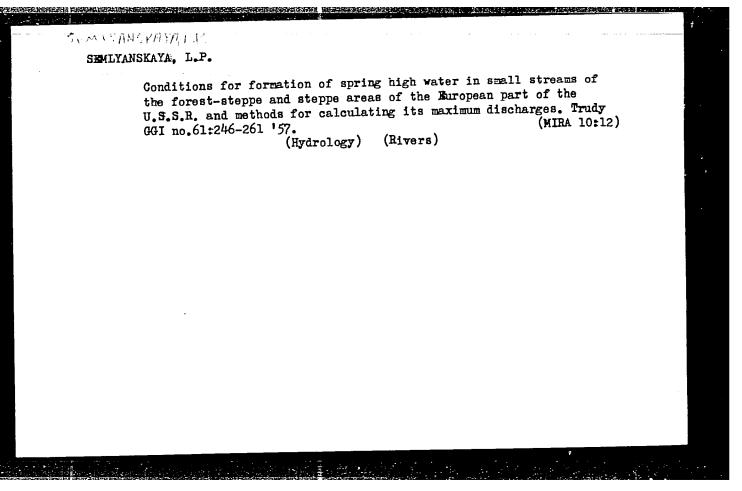
The original control system of the deflector voltage of the 120 cm Cracow cyclotron has been found unsatisfactory: as the system relied upon a variac transformer in the power supply of the rectifier, the voltage stability was inadequate and there was no means of smooth regulation of the voltage. An additional electronic stabilizer was installed producing 0.3% stability on the deflector plate at 10% fluctuations of the power supply. The circuit consists of: 1) a Tesla NT9F regulator tube; 2) a comparator circuit in which a voltage obtained from a potential divider and proportional to the deflector voltage is compared with a reference voltage; 3) a two stage d.c amplifier. The difference between the voltage derived from the potential divider and the reference voltage is amplified Card 1/2

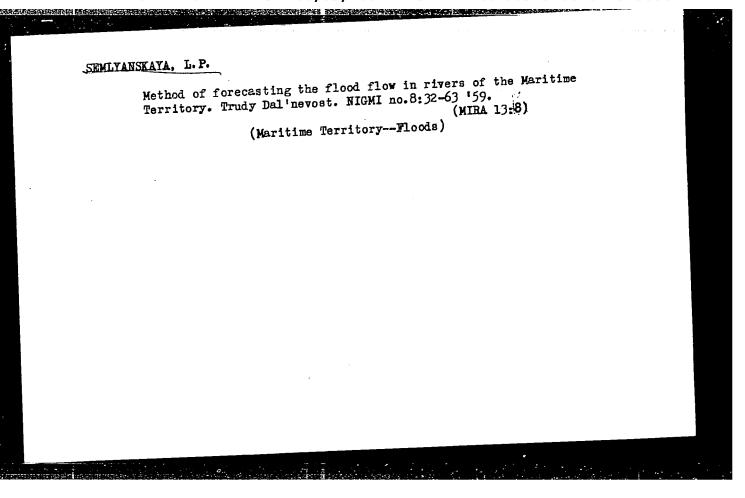
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So: Knichneya Letajis', No. 18, 1956





MARUSENKO, Yakov, Il'ich; ZEMTSOV, Aleksey Anisimovich; SEMIYANSKAYA,
Lidiya Pavlovna; PANKOV, Arkadiy Mikhaylovich; MININ, Nikolay
Kondrat'yevich; MORDOVINA, L.G., tekhn. red.

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